



OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/057,813

DATE: 02/15/2002

TIME: 14:35:09

Input Set : A:\LJ5144.txt

Output Set: N:\CRF3\02152002\J057813.raw

ENTERED

4 <110> APPLICANT: Reed, John C.  
 5 Okada, Kazuya  
 7 <120> TITLE OF INVENTION: Survivin-Binding Proteins, Encoding  
 8 Nucleic Acids, and Methods of Use  
 11 <130> FILE REFERENCE: P-LJ 5144  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/057,813  
 C--> 13 <141> CURRENT FILING DATE: 2002-01-24  
 13 <150> PRIOR APPLICATION NUMBER: US 09/770,219  
 14 <151> PRIOR FILING DATE: 2001-01-25  
 16 <160> NUMBER OF SEQ ID NOS: 14  
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 645  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Homo sapiens  
 25 <220> FEATURE:  
 26 <221> NAME/KEY: CDS  
 27 <222> LOCATION: (145)...(642)  
 29 <400> SEQUENCE: 1  
 30 ttgggtaccg ggccccccct cgaggtcgac ggtatcgata agcttgatat cgaattcggc 60  
 31 acgagccgcg cgccatcttg gctccggatc gtgcgtgagg aggcttcgtg ggcagcgaga 120  
 32 gtcacagaca agacagcaag cagg atg gag cac tac cgg aaa gct ggc tct 171  
 33 Met Glu His Tyr Arg Lys Ala Gly Ser  
 34 1 5  
 36 gta gag ctc cca gcg cct tcc cca atg ccc cag cta cct cct gat acc 219  
 37 Val Glu Leu Pro Ala Pro Ser Pro Met Pro Gln Leu Pro Pro Asp Thr  
 38 10 15 20 25  
 40 ctt gag atg cgg gtc cga gat ggc agc aaa att cgc aac ctg ctg ggg 267  
 41 Leu Glu Met Arg Val Arg Asp Gly Ser Lys Ile Arg Asn Leu Leu Gly  
 42 30 35 40  
 44 ttg gct ctg ggt cgg ttg gag ggc ggc agt gct cgg cat gta gtg ttc 315  
 45 Leu Ala Leu Gly Arg Leu Glu Gly Gly Ser Ala Arg His Val Val Phe  
 46 45 50 55  
 48 tca ggt tct ggc agg gct gca gga aag gct gtc agc tgc gct gag att 363  
 49 Ser Gly Ser Gly Arg Ala Ala Gly Lys Ala Val Ser Cys Ala Glu Ile  
 50 60 65 70  
 52 gtc aag cgg cgg gtc cca ggc ctg cac cag ctc acc aag cta cgt ttc 411  
 53 Val Lys Arg Arg Val Pro Gly Leu His Gln Leu Thr Lys Leu Arg Phe  
 54 75 80 85  
 56 ctt cag act gag gac agc tgg gtc cca gcc tca cct gac aca ggg cta 459  
 57 Leu Gln Thr Glu Asp Ser Trp Val Pro Ala Ser Pro Asp Thr Gly Leu  
 58 90 95 100 105  
 60 gac ccc ctc aca gtg cgc cgc cat gtg cct gca gtg tgg gtg ctg ctc 507

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61 Asp Pro Leu Thr Val Arg Arg His Val Pro Ala Val Trp Val Leu Leu
62                               110                               115                               120
64 agc cgg gac ccc ctg gac ccc aat gag tgt ggt tac caa ccc cca gga 555
65 Ser Arg Asp Pro Leu Asp Pro Asn Glu Cys Gly Tyr Gln Pro Pro Gly
66                               125                               130                               135
68 gca ccc cct ggc ctg ggt tcc atg ccc agc tcc agc tgt ggc cct cgt 603
69 Ala Pro Pro Gly Leu Gly Ser Met Pro Ser Ser Ser Cys Gly Pro Arg
70                               140                               145                               150
72 tcc cga aga agg ctc gag aca ccc gat cgt gaa gac ttg tga 645
73 Ser Arg Arg Arg Leu Glu Thr Pro Asp Arg Glu Asp Leu
74                               155                               160                               165
77 <210> SEQ ID NO: 2
78 <211> LENGTH: 166
79 <212> TYPE: PRT
80 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 2
83 Met Glu His Tyr Arg Lys Ala Gly Ser Val Glu Leu Pro Ala Pro Ser
84 1 5 10 15
85 Pro Met Pro Gln Leu Pro Pro Asp Thr Leu Glu Met Arg Val Arg Asp
86 20 25 30
87 Gly Ser Lys Ile Arg Asn Leu Leu Gly Leu Ala Leu Gly Arg Leu Glu
88 35 40 45
89 Gly Gly Ser Ala Arg His Val Val Phe Ser Gly Ser Gly Arg Ala Ala
90 50 55 60
91 Gly Lys Ala Val Ser Cys Ala Glu Ile Val Lys Arg Arg Val Pro Gly
92 65 70 75 80
93 Leu His Gln Leu Thr Lys Leu Arg Phe Leu Gln Thr Glu Asp Ser Trp
94 85 90 95
95 Val Pro Ala Ser Pro Asp Thr Gly Leu Asp Pro Leu Thr Val Arg Arg
96 100 105 110
97 His Val Pro Ala Val Trp Val Leu Leu Ser Arg Asp Pro Leu Asp Pro
98 115 120 125
99 Asn Glu Cys Gly Tyr Gln Pro Pro Gly Ala Pro Pro Gly Leu Gly Ser
100 130 135 140
101 Met Pro Ser Ser Ser Cys Gly Pro Arg Ser Arg Arg Arg Leu Glu Thr
102 145 150 155 160
103 Pro Asp Arg Glu Asp Leu
104 165
107 <210> SEQ ID NO: 3
108 <211> LENGTH: 41
109 <212> TYPE: PRT
110 <213> ORGANISM: Homo sapiens
112 <400> SEQUENCE: 3
113 Val Pro Lys Thr His Leu Met Ser Glu Ser Glu Trp Arg Asn Leu Gly
114 1 5 10 15
115 Val Gln Gln Ser Gln Gly Trp Val His Tyr Met Ile His Glu Pro Glu
116 20 25 30
117 Pro His Ile Leu Leu Phe Arg Arg Pro
118 35 40

```

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121 <210> SEQ ID NO: 4
122 <211> LENGTH: 41
123 <212> TYPE: PRT
124 <213> ORGANISM: Homo sapiens
126 <400> SEQUENCE: 4
127 Val Pro Lys Thr His Leu Met Ser Glu Glu Glu Trp Arg Arg Leu Gly
128 1 5 10 15
129 Val Gln Gln Ser Leu Gly Trp Val His Tyr Met Ile His Glu Pro Glu
130 20 25 30
131 Pro His Ile Leu Leu Phe Arg Arg Pro
132 35 40
135 <210> SEQ ID NO: 5
136 <211> LENGTH: 41
137 <212> TYPE: PRT
138 <213> ORGANISM: Drosophila melanogaster
140 <400> SEQUENCE: 5
141 Val Pro Lys Thr His Leu Met Thr Glu Ala Glu Trp Arg Ser Ile Gly
142 1 5 10 15
143 Val Gln Gln Ser Arg Gly Trp Ile His Tyr Met Ile His Lys Pro Glu
144 20 25 30
145 Pro His Ile Leu Leu Phe Arg Arg Pro
146 35 40
149 <210> SEQ ID NO: 6
150 <211> LENGTH: 41
151 <212> TYPE: PRT
152 <213> ORGANISM: Saccharomyces cerevisiae
154 <400> SEQUENCE: 6
155 Val Gly Thr Leu Arg Ile Leu Thr Glu Asp Glu Trp Arg Gly Leu Gly
156 1 5 10 15
157 Ile Thr Gln Ser Leu Gly Trp Glu His Tyr Glu Cys His Ala Pro Glu
158 20 25 30
159 Pro His Ile Leu Leu Phe Lys Arg Pro
160 35 40
163 <210> SEQ ID NO: 7
164 <211> LENGTH: 25
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: primer
171 <400> SEQUENCE: 7
172 cgaattcatg ggtgccccga cgttg 25
174 <210> SEQ ID NO: 8
175 <211> LENGTH: 19
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: primer
182 <400> SEQUENCE: 8
183 atccgctccg gttcgagg 19

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185 <210> SEQ ID NO: 9
186 <211> LENGTH: 19
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: primer
193 <400> SEQUENCE: 9
194 cctgcgaacc ggagcggat 19
196 <210> SEQ ID NO: 10
197 <211> LENGTH: 33
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: primer
204 <400> SEQUENCE: 10
205 gagctcgagt taatccatgg cagccagctg ctc 33
207 <210> SEQ ID NO: 11
208 <211> LENGTH: 27
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: primer
215 <400> SEQUENCE: 11
216 agaattcatg gagcactacc ggaaagc 27
218 <210> SEQ ID NO: 12
219 <211> LENGTH: 36
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: primer
226 <400> SEQUENCE: 12
227 cagctcgagt tacaagtctt cacgatcggg tgtttc 36
229 <210> SEQ ID NO: 13
230 <211> LENGTH: 492
231 <212> TYPE: DNA
232 <213> ORGANISM: Homo sapiens
234 <220> FEATURE:
235 <221> NAME/KEY: CDS
236 <222> LOCATION: (1)...(489)
238 <400> SEQUENCE: 13
239 atg gag cac tac cgg aaa gct ggc tct gta gag ctc cca gcg cct tcc 48
240 Met Glu His Tyr Arg Lys Ala Gly Ser Val Glu Leu Pro Ala Pro Ser
241 1 5 10 15
243 cca atg ccc cag cta cct cct gat acc ctt gag atg cgg gtc cga gat 96
244 Pro Met Pro Gln Leu Pro Pro Asp Thr Leu Glu Met Arg Val Arg Asp
245 20 25 30
247 ggc agc aaa att cgc aac ctg ctg ggg ttg gct ctg ggt cgg ttg gag 144
248 Gly Ser Lys Ile Arg Asn Leu Leu Gly Leu Ala Leu Gly Arg Leu Glu
249 35 40 45

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251 ggc ggc agt gct cgg cat gta gtg ttc tca ggt tct ggc agg gct gca 192
252 Gly Gly Ser Ala Arg His Val Val Phe Ser Gly Ser Gly Arg Ala Ala
253      50                      55                      60
255 gga aag gct gtc agc tgc gct gag att gtc aag cgg cgg gtc cca ggc 240
256 Gly Lys Ala Val Ser Cys Ala Glu Ile Val Lys Arg Arg Val Pro Gly
257 65      70                      75                      80
259 ctg cac cag ctc acc aag cta cgt ttc ctt cag act gag gac agc tgg 288
260 Leu His Gln Leu Thr Lys Leu Arg Phe Leu Gln Thr Glu Asp Ser Trp
261      85                      90                      95
263 gtc cca gcc tca cct gac aca ggg cta gac ccc ctc aca gtg cgc cgc 336
264 Val Pro Ala Ser Pro Asp Thr Gly Leu Asp Pro Leu Thr Val Arg Arg
265      100                     105                     110
267 cat gtg cct gca gtg tgg gtg ctg ctc agc cgg gac ccc ctg gac ccc 384
268 His Val Pro Ala Val Trp Val Leu Leu Ser Arg Asp Pro Leu Asp Pro
269      115                     120                     125
271 aat gag tgt ggt tac caa ccc cca gga gca ccc cct ggc ctg ggt tcc 432
272 Asn Glu Cys Gly Tyr Gln Pro Pro Gly Ala Pro Pro Gly Leu Gly Ser
273      130                     135                     140
275 atg ccc agc tcc agc tgt ggc cct cgt tcc cga aga agg gct cga gac 480
276 Met Pro Ser Ser Ser Cys Gly Pro Arg Ser Arg Arg Arg Ala Arg Asp
277 145      150                     155                     160
279 acc cga tcg tga 492
280 Thr Arg Ser
284 <210> SEQ ID NO: 14
285 <211> LENGTH: 163
286 <212> TYPE: PRT
287 <213> ORGANISM: Homo sapiens
289 <400> SEQUENCE: 14
290 Met Glu His Tyr Arg Lys Ala Gly Ser Val Glu Leu Pro Ala Pro Ser
291 1      5                      10                      15
292 Pro Met Pro Gln Leu Pro Pro Asp Thr Leu Glu Met Arg Val Arg Asp
293      20                      25                      30
294 Gly Ser Lys Ile Arg Asn Leu Leu Gly Leu Ala Leu Gly Arg Leu Glu
295      35                      40                      45
296 Gly Gly Ser Ala Arg His Val Val Phe Ser Gly Ser Gly Arg Ala Ala
297      50                      55                      60
298 Gly Lys Ala Val Ser Cys Ala Glu Ile Val Lys Arg Arg Val Pro Gly
299 65      70                      75                      80
300 Leu His Gln Leu Thr Lys Leu Arg Phe Leu Gln Thr Glu Asp Ser Trp
301      85                      90                      95
302 Val Pro Ala Ser Pro Asp Thr Gly Leu Asp Pro Leu Thr Val Arg Arg
303      100                     105                     110
304 His Val Pro Ala Val Trp Val Leu Leu Ser Arg Asp Pro Leu Asp Pro
305      115                     120                     125
306 Asn Glu Cys Gly Tyr Gln Pro Pro Gly Ala Pro Pro Gly Leu Gly Ser
307      130                     135                     140
308 Met Pro Ser Ser Ser Cys Gly Pro Arg Ser Arg Arg Arg Ala Arg Asp
309 145      150                     155                     160
310 Thr Arg Ser

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**VERIFICATION SUMMARY**

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Input Set : A:\LJ5144.txt

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date